

BRAZILIAN DCS REPORT

THE BRAZILIAN ENVIRONMENTAL DATA COLLECTION PROGRAM

Main applications :

- Monitoring of hydrological basins
- Meteorological data for weather and climate forecast
- Chemistry of the atmosphere
- Oceanography

Data collecting platforms (DCP) : more than 370

Satellites :

- SCD1, SCD2 and CBERS1 (operational)
- CBERS2 (2001), SSRI (2004), SCD3 (2007)

SCD3/ARGOS MISSION :

Payloads :

- DCS
- Message communication
- Argos-3 (under analysis)

Argos-3 is being considered as one of SCD3 payloads.

Schedule : due to budget restrictions, launch date considered by 2007.

BRAZILIAN DATA COLLECTION SYSTEM STATUS :

Present status :

- 371 DCPs installed (Mar/2000)
- 3 satellites (SCD1, SCD2, CBERS1)
- 2 DCS Receiving stations : Cuiabá and Alcântara
- Users access via Internet
- Free of charge

Capacity of the system :

- 500 DCPs/channel
- 2 channels (401,62 MHz and 401,65 MHz)

Planning for the future : assure the DCS system continuity by :

- increase the number of satellites,
- increase the number of receiving stations.

Data Collection System continuity assured by the following satellites :

- | | | | |
|-----------|------------------|--------|------|
| - CBERS-2 | polar orbit | 778 km | 2001 |
| - SSR1 | equatorial orbit | 900 km | 2004 |
| - SCD3 | equatorial orbit | 900 km | 2007 |

CBERS DCS payload reception :

S Band : operational : (Cuiabá, Alcântara)

UHF : evaluation tests

SJ Campos

Toulouse

S Band DCS receiving stations :

- Cuiabá
- Alcântara
- Natal
- Santa Maria

UHF DCS receiving stations (under test)